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CPY - SHIE

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FS - CPI

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MC - A04-C01A A05-E06B A06-A00B A07-A04F A08-F A08-F04A

PA - (SHIE ) SHINETSU CHEM IND CO LTD

PN - JP2945551B2 B2 19990906 DW199942 C08L25/04 004pp

- JP6128434 A 19940510 DW199423 C08L25/04 005pp

PR - JP19920304906 19921016

XIC - C08G-064/10; C08K-003/22; C08K-005/09; C08K-005/42; C08L-025/04; (C08L-025/04 C08L-083/07); (C08L-025/04 C08L-069/00 C08L-083/07); (C08L-025/04 C08L-043/04 C08L-069/00)

- AB J06128434 A flame retardant resin compsn. comprises; 100 pts. wt. of (A) a thermoplastic styrene resin; 1 to 50 (pref. 5 to 10) pts. wt. of (B) an organopolysiloxane resin which contains a CH2=CHSiO1.5 unit or CH2=CH(CH3)SiO unit and has a molecular weight of 500 to 100,000 (pref. 1,000 to 20,000); 0.1 to 20, (pref. 0.2 to 10) pts. wt. of (C) at least one flame retarder selected from potassium perfluoroalkane sulphonate, brominated polycarbonate resin and magnesium carboxylate; and 0 to 200 pts. wt. of (D) a mineral hydroxide.
  - Also claimed are compsns. where; (B) has CH2=CHSiO1.5 unit or CH2=CH.CH3SiO unit and C6H5SiO1.5 unit; (B) has CH2=CHSiO1.5 unit or CH2CH.CH3SiO unit and (C6H5)2SiO2 unit; (B) has CH2=CHSiO1.5 unit or CH2=CH.CH3SiO unit and C6H5.CH3SiO unit; or (B) has CH2=CHSiO1.5 unit or CH2=CH.CH3SiO unit, SiO2 unit and (CH3)3SiO0.5 unit.
  - Pref. (A) is polystyrene, high-strength polystyrene, butadiene-styrene copolymer, acrylonitrile-styrene copolymer and acrylonitrile-butadiene-styrene copolymer. (B) includes a hydrolysate or chlorosilane or alkoxysilane, an equilibrated product of cyclic siloxane, etc. The terminal gp. may be silanol, methoxy, ethoxy, isopropoxy or isobutoxy gp. Pref. (C) is potassium perfluorobutane sulphonate and magnesium stearate. Pref. (D) is aluminium hydroxide and magnesium hydroxide.
  - ADVANTAGE The flame retardant resin compsn. has high safety as it generates no harmful gas and shows reduced dripping on combustion.
  - In an example, formulation comprised; 100 pts. wt. of standard grade polystyrene; 10 pts. wt. of organopolysiloxane resin of formula (C6H5SiO1.5)0.8(CH2=CHSiO1.5)0.2; 0.5 pt. wt. of potassium perfluorobutane sulphonate; and 100 pts. wt. of aluminium hydroxide.(Dwg.0/0)

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TW - FLAME RETARD RESIN COMPOSITION COMPTISE THERMOPEASTIC POLITITHENT RESIN ORGANO POLYSILOXANE RESIN FLAME RETARD METAL HYDROXIDE REDUCE HARM GAS DRIP COMBUST

7 FLAME RETARD RESIN COMPOSITE IF COMPRISE THE MODELASTIC POLYSTYRENE HESIN CEGANGEO, YOU DO WALL HESIN FLAME PETARE METAL HYDROXIDE REDUCE

## HARM GAS DRIP COMBUST

NC - 001 OPD - 1992-10-16 ORD - 1994-05-10

PAW - (SHIE ) SHINETSU CHEM IND CO LTD

TI - Flame retardant resin compsn. - comprises thermoplastic styrene] resin, organo:polysiloxane resin, flame retarder and metal hydroxide for reduced harmful gas and dripping on combustion